

EarthCube Stakeholder Survey Introduction:

EarthCube is a bold, new NSF initiative to create an integrated data and knowledge management system that extends across the geosciences. To do this, EarthCube is engaging geoscientists and experts in cyberinfrastructure and computer science to create and implement this new vision. To help understand the challenges of building and implementing EarthCube, NSF has funded a study of the communication, coordination and alignment of those engaging in the EarthCube process. This survey is one of several mechanisms we will use to understand and inform you and NSF of these challenges, perceptions, and future needs of the EarthCube community.

The survey results will be posted on the EarthCube website.

Informed Consent:

Your participation in this survey is voluntary. All of your comments will be confidential and not identified by name. You have the option of not answering any questions and you may stop at any time. Consistent with the university requirements of informed consent for research involving people, we are informing you that we believe this investigation places you at minimal discomfort or risk. It is estimated that it will take approximately 15-20 minutes to complete the survey.

There is a two-step process to ensure confidentiality. First, please indicate below your name, your e-mail address, and your consent to participate. Your name and e-mail address will be stored separately from your responses to the rest of the survey (to preserve confidentiality). Second, you will be automatically connected to the survey, which has a separate database associated with it.

Consistent with NSF requirements, the data set will be made publically available in the future. When that happens, we will remove information that could reveal individual identities from the data set before making it publically available.

The principal investigator, Dr. Joel Cutcher-Gershenfeld, can answer any questions or concerns you might have about the investigation. He can be reached at the University of Illinois, Urbana-Champaign (School of Labor and Employment Relations, 504 East Armory Avenue, Phone: 217-333-1454 or e-mail: joelcg@illinois.edu). If you have additional questions, comments, concerns about your rights as a participant in this research, or if you should wish to voice a complaint about the survey you can contact the Institutional Review Board (IRB), 528 E. Green St. Suite 203, Champaign, IL 61820 (Phone: 217-333-2670) or via email at irb@illinois.edu.

1. Name

2. Email Address *This question is required

3. I have read this statement and I agree to participate in this research

*This question is required

Yes

No

EarthCube Stakeholder Survey

Demographic Information

For each page of the survey, please use only the provided buttons for advancing the survey. Do not use the browser's navigational buttons unless you wish to exit the survey. Any technical problems can be directed to haberman@illinois.edu.

1) Primary Disciplinary Domain:

- Geoscience
- Cyberinfrastructure/Computer Science
- Both
- Other

Please enter primary disciplinary domain if not listed above:

2) If you marked **Geoscience or **Cyberinfrastructure/Computer Science** or **Both** above, how would you describe your specific area of expertise?**

3) Including graduate study, *years of experience* within your professional disciplinary affiliation (see question 1 above):

- Under 5 years
- 5-10 years
- 11-20 years
- Over 20 years

4) Please list *all countries* in which you have lived for a year or longer: _____

5) Institution national affiliation:

- US
- Non-US

If non-US, please specify:

6) Institutional affiliation (please indicate your primary affiliation):

- Education – University or 4-Year College
- Education – Community College
- Education – K-12
- Government – Federal Agency
- Government – State or Local Agency
- Industry – Small company (less than 50 employees)
- Industry – Medium company (50-500 employees)
- Industry – Large company (over 500 employees)
- Other – National Laboratory or Federally Funded Research & Development Center (FFRDC)
- Other – Supercomputing Facility
- Other – Not-for-profit/Non-Governmental Organization (NGO)
- Other – Professional Society or Scientific Community Governance Organization
- Other – Citizen Scientist
- Other

If other, please specify:

7) Please indicate your *gender*:

- Male
- Female

67) My employer/organization will most likely value and reward any efforts I make in the shaping and development of EarthCube.

Strongly Disagree Strongly Agree DN/A

68) Any contributions I might make to the shaping and development of EarthCube will likely be **recognized and valued by colleagues in my field/discipline.**

Strongly Disagree Strongly Agree DN/A

69) If you are involved in EarthCube or intend to become involved, please indicate how low or high **your motivation** is along each dimension (1 is low and 5 is high motivation):

I am motivated to be involved with EarthCube for...	Low	Middle	High
Advancing my research.	1	2 3 4	5
Advancing my teaching.	1	2 3 4	5
Networking opportunities.	1	2 3 4	5
Developing successful grant proposals.	1	2 3 4	5
Leading to new scientific advances	1	2 3 4	5
Making geoscience data/findings more accessible to the general public.	1	2 3 4	5
Helping to inform resource managers and policy makers.	1	2 3 4	5
Serving my field/profession.	1	2 3 4	5
Other (please specify)	1	2 3 4	5

Note, if you are not involved in EarthCube, please indicate which of these is applicable:

- I am not involved in EarthCube but am open to becoming involved in the future.
- I am not interested in EarthCube and have no intention of getting involved.

If not, why?

70) Assisting in the development and operation of EarthCube will be one of my top three professional commitments in the next 3-5 years.

Strongly Disagree Strongly Agree DN/A

71) I plan to devote time to help EarthCube development and operations, **irrespective of whether or not I receive NSF funding or not.**

Strongly Disagree Strongly Agree DN/A

72) If you have additional comments on the impacts/incentives that might drive/enable your potential engagement in EarthCube, please indicate that below.

Frequency of Interactions Across EarthCube Stakeholders

Note that the following questions involve general classifications of professional roles in fields and disciplines that can be organized in multiple ways and that are evolving. We apologize in advance if the categories don't map exactly onto the work you do – please use the closest, most appropriate category or, there is not a good fit, please specify "other."

73) Which is your primary role/type of expertise?*

- Atmospheric or Space Weather scientist
- Oceanographer
- Geologist
- Geophysicist
- Hydrologist
- Critical zone scientist
- Climate scientist
- Biologist or Ecosystems scientist
- Physical Geographer
- Computer or Cyberinfrastructure scientist
- Social scientist (Human Geographer, Anthropologist, Economist, Psychologist, Sociologist, etc.)
- Other scientist
- Data manager
- High performance computing expert
- Software engineer
- IT user support personnel
- K-12 educator
- Designer/developer of geoscience instrumentation
- Environmental resource manager (eg. local, state, or federal)
- Other experts

If you selected other, please specify your role

74) If appropriate, what is your secondary role/type of expertise?

- Atmospheric or Space Weather scientist
- Oceanographer
- Geologist
- Geophysicist
- Hydrologist
- Critical zone scientist
- Climate scientist
- Biologist or Ecosystems scientist
- Physical Geographer
- Computer or Cyberinfrastructure scientist
- Social scientist (Human Geographer, Anthropologist, Economist, Psychologist, Sociologist, etc.)
- Other scientist
- Data manager
- High performance computing expert
- Software engineer
- IT user support personnel
- K-12 educator
- Designer/developer of geoscience instrumentation
- Environmental resource manager (eg. local, state, or federal)
- Other experts

If you selected other, please specify your role

75) Please indicate your work-related interactions with Scientists/Educators in the following fields over the past 2-3 years:

Approximate frequency of your work-related interactions (in person, by video, by phone, text, tweet, e-mail, etc.) with people in each of the following disciplines.

	Daily	Weekly	Monthly	Quarterly	Annual	Never
Atmospheric and Space Weather scientists	()	()	()	()	()	()
Oceanographers	()	()	()	()	()	()
Geologists	()	()	()	()	()	()
Geophysicists	()	()	()	()	()	()
Hydrologists	()	()	()	()	()	()
Critical zone scientists	()	()	()	()	()	()
Climate scientists	()	()	()	()	()	()
Biologists and Ecosystems scientists	()	()	()	()	()	()
Physical Geographers	()	()	()	()	()	()
Computer and Cyberinfrastructure scientists	()	()	()	()	()	()
Social scientists (Human Geographers, Anthropologists, Economists, Psychologists, Sociologists)	()	()	()	()	()	()
Other scientists	()	()	()	()	()	()

76) Please indicate your work-related interactions with the following types of experts over the past 2-3 years:

Approximate frequency of your work-related interactions (in person, by video, by phone, text, tweet, e-mail, etc.) with people in each of the following disciplines.

	Daily	Weekly	Monthly	Quarterly	Annual	Never
Data managers	()	()	()	()	()	()
High performance computing experts	()	()	()	()	()	()
Software engineers	()	()	()	()	()	()
User support personnel	()	()	()	()	()	()
K-12 educator	()	()	()	()	()	()
Designer/developer of geoscience instrumentation	()	()	()	()	()	()
Environmental resource managers (eg. national, state or federal)	()	()	()	()	()	()
Other experts	()	()	()	()	()	()

